MOUNTING HEIGHTS OF ELECTRICAL DEVICES

"UP" MEANS UP FROM FINISHED FLOOR TO CENTERLINE OF DEVICE "DN" MEANS DOWN FROM FINISHED CEILING TO CENTERLINE OF DEVICE

- WALL SWITCHES *RECEPTACLES TT SWITCHES UP 42" *DESK TELEPHONE OUTLETS UP 18" WALL TELEPHONE OUTLETS UP 50" DISCONNECT SWITCHES UP 66" CLOCK OUTLETS UP 90" FIRE ALARM HORNS / STROBES UP 80" OR 6" BELOW CEILING
- FIRE ALARM BREAK GLASS STATIONS UP 42" PUSH-BUTTON STATIONS UP 42" PANELS TOP @ 72" (TOP) COMPUTER OUTLETS UP 18" UP 42" INTERCOM OUTLETS SECURITY CAMERA OUTLETS DN 12" UP 42" CARD ACCESS OUTLETS UP 80" VISUAL FIRE ALARM STROBE
- *A. THE EXACT MOUNTING HEIGHT REQUIRED FOR THESE DEVICES SHALL BE COORDINATED BY THE ELECTRICAL CONTRACTOR.

HAND DRYERS

B. ALL DEVICE MOUNTING HEIGHTS SHALL MEET ALL ACCESSIBILITY STANDARDS.

UP 42"

GENERAL ELECTRICAL DEMOLITION REQUIREMENTS:

DEMOLISHED.

- 1) ELECTRICAL CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AT THE PROJECT SITE BEFORE SUBMITTING COST PROPOSAL.
- 2) THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO VERIFY DEVICES NOT SHOWN. ALL DEVICES NEED TO BE REMOVED IN THE DEMOLITION AREA UNLESS NOTED ON THE DRAWINGS.
- 3) IT IS MANDATORY THAT THE EXISTING BUILDING REMAIN IN CONTINUOUS AND NON-INTERRUPTED OPERATION DURING REMODELING/ALTERING. SERVICES TO EXISTING BUILDING SHALL BE KEPT ON CONTINUOUS OPERATION INCLUDING POWER, LIGHTING, TELEPHONE, FIRE ALARM, ETC. ANY ABSOLUTELY NECESSARY INTERRUPTION OF THESE SERVICES TO ACCOMPLISH PROJECT CONSTRUCTION, SHALL BE HELD TO A MINIMUM AND ARRANGED WITH THE OWNER THROUGH THE GENERAL CONTRACTOR TWO (2) WEEKS IN ADVANCE. TEMPORARY SERVICES SHALL BE FURNISHED AND INSTALLED WHERE NECESSARY TO ACCOMPLISH THIS PURPOSE. TEMPORARIES SHALL BE REMOVED ONLY AFTER NEW PERMANENT SERVICES ARE INSTALLED AND FULLY OPERATIONAL.
- 4) ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN DEMOLITION, REMOVAL, CAPPING, STORING, ABANDONING, DISCONNECTING, RELOCATING AND RECONNECTION OF EXISTING ELECTRICAL EQUIPMENT AND MATERIAL. ALL CUTTING, PATCHING, REPAIRING, REPLACEMENT AND REFINISHING, SHALL MATCH THE EXISTING CONSTRUCTION AS NEARLY AS POSSIBLE.
- 5) EXCEPT WHERE OTHERWISE SHOWN OR NOTED ON DRAWING "TO BE RETAINED, RELOCATED" OR HEREINAFTER NOTED, ALL EXISTING ELECTRICAL EQUIPMENT AND MATERIAL IN AREAS TO BE REMODELED/ALTERED SHALL BE REMOVED WHERE THEY INTERFERE WITH PROPOSED NEW CONSTRUCTION AND/OR INTERFERE WITH PROPOSED USAGE OF SPACE BY OWNER AS FOLLOWS:
- A) REMOVE ANY CONDUITS PROTRUDING ABOVE FINISHED FLOOR, CAP AND FINISH OVER WITH FLOOR MATERIAL TO MATCH EXISTING.
- B) REMOVE ALL LIGHT FIXTURES, RECEPTACLES, SWITCHES, ETC. AND ASSOCIATED WIRING.REMOVE ALL SURFACE MOUNTED CONDUIT/BOXES AND THEIR ASSOCIATED WIRING.
- C) REMOVE ALL CONCEALED RACEWAYS, BOXES AND WIRING FROM PARTITIONS BEING
- D) REMOVE ALL EXISTING WIRING/CABLING FROM ALL EXISTING CONCEALED RACEWAYS IN PARTITION THAT ARE TO REMAIN.
- E) ANY FEEDERS, CONDUITS, BRANCH CIRCUITS, SIGNAL AND TELEPHONE CIRCUITS, ETC. PASSING THROUGH THE REMODELED AREAS TO SERVE (OR BE SERVED FROM) EXISTING ADJACENT, REMOTE OR SURROUNDING AREAS THAT ARE TO REMAIN, SHALL BE RETAINED AND KEPT OPERATIONAL AND SHALL BE REROUTED IN ALL CASES WHERE THEY INTERFERE WITH ANY NEW WORK OR USAGE TO BE ACCOMPLISHED IN THE REMODELED AREA.
- WHERE DEVICES ARE OMITTED FROM PRESENT BRANCH CIRCUITS, THE REMAINING DEVICES SHALL BE REWIRED, IF NEEDED AND AS REQUIRED, TO REMAIN ON THEIR RESPECTIVE CIRCUITS AND IN OPERATING CONDITION.
- 6) ELECTRICAL CONTRACTOR SHALL REFER TO FIRE PROTECTION DRAWINGS TO FAMILIARIZE HIMSELF WITH EXTENT OF ALTERATION/REMODELING WORK AND MORE SPECIFICALLY NOTE WHERE NEW PARTITIONING IS BEING INSTALLED, WHERE EXISTING PARTITIONING IS BEING REMOVED, WHERE CEILINGS ARE BEING REMOVED AND OR REPLACED, ETC.
- 7) ALL WIRING (POWER, LIGHTING) NOT REUSED FOR REMODELING AREAS SHALL BE COMPLETELY REMOVED BACK TO ASSOCIATED PANELS. EMPTY BOXES AND CONDUITS SHALL BE REMOVED BEYOND REMODELED AREA (ABOVE CEILING).
- 8) THE OWNER SHALL HAVE THE FIRST CHOICE TO ACCEPT EXISTING DEVICES BEING REMOVED.

GENERAL NOTES:

- 1) ALL BRANCH CIRCUITS SHALL HAVE GROUND CONDUCTORS.
- 2) THE ELECTRICAL CONTRACTOR SHALL PROVIDE, IF REQUIRED, ADJUSTMENTS (±) 6'-0" IN THE LOCATION OF ALL SYSTEM DEVICES, FIXTURES, OUTLETS, PANELS, ETC. IN ORDER TO EXPEDITE THE ELECTRICAL WORK. THE POSITION OF ALL WORK AS SHOWN IS INTENDED TO BE FIXED AND IN THE PROPER LOCATION. SUCH REQUIRED ADJUSTMENT SHALL BE DETERMINED BY THE A/E..
- 3) ALL EMERGENCY DUPLEX RECEPTACLES SHALL BE PROVIDED WITH ENGRAVED NAME PLATES IDENTIFYING THE PANEL NAME AND CIRCUIT BRANCH, FIRMLY ATTACHED.
- 4) PROVIDE SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT PHASE CONDUCTOR.
- 5) SEE FIRE PROTECTION SHEETS FOR EXACT LOCATION OF DEVICES. COORDINATE LOCATION OF DEVICES WITH FIRE PROTECTION FIELD PERSON TO ENSURE PROPER LOCATION AND HEIGHT.
- 6) WHERE NEW DEVICES ARE SHOWN THE ELECTRICAL CONTRACTOR SHALL DO ALL CUTTING. THE GENERAL CONTRACTOR SHALL DO ALL PATCHING AND PAINTING OF EXISTING WALLS. THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH EXISTING WALL CONSTRUCTION. WHERE POSSIBLE ELECTRICAL CONTRACTOR MAY USE EXISTING BRANCH CIRCUIT CONDUIT BUT NEW CIRCUIT WIRING
- 7) SMOKE DETECTORS SHALL BE MOUNTED A MINIMUM OF 3'-0". FROM EACH AIR SUPPLY DIFFUSER.
- 8) WALL SWITCHES FOR EMERGENCY LIGHTING FIXTURE SHALL HAVE LUMINATED HANDLES WITH RED

LINE WEIGHT KEY
 ALL ITEMS INDICATED BY A DARK SOLID LINE ARE NEW
 ALL ITEMS INDICATED BY A LIGHT SOLID LINE ARE EXISTING TO REMAIN
 ALL ITEMS INDICATED BY A DARK DASHED LINE ARE EXISTING TO BE REMOVED OR RELOCATED.

ABBR	DESCRIPTION	ABBR	DESCRIPTION
A, AMP	AMPERE	MOA	MULTI-OUTLET ASSEMBLY
AC	ABOVE COUNTER	MSS	MANUAL STARTER SWITCH
AFF	ABOVE FINISHED FLOOR	MTR	MOTOR
AIC	AMPERE INTERRUPTING CAPACITY	МС	MECHANICAL CONTRACTOR
AL	ALUMINUM	MFR	MANUFACTURER
ARCH	ARCHITECT, ARCHITECTURE	N/C	NORMALLY CLOSED
ATS	AUTOMATIC TRANSFER SWITCH	N/O	NORMALLY OPEN
AUX	AUXILIARY	NEC	NATIONAL ELECTRICAL CODE
AV	AUDIO - VISUAL	NEMA	NATIONAL ELECTRICAL MFR'S ASSOC.
AP	ACCESS PANEL	NFSS	NON- FUSED SAFETY SWITCH
ВС	BELOW COUNTER	NIC	NOT IN CONTRACT
втм	воттом	NL	NIGHT LIGHT
С	CONDUIT	NTS	NOT TO SCALE
СВ	CIRCUIT BREAKER	O.C.	ON CENTER
CCTV	CLOSED CIRCUIT TELEVISION	OL	OVERLOADS
CRT	CATHODE-RAY TUBE	Р	POLE
C/T	CURRENT TRANSFORMER	PF	POWER FACTOR
CU	COPPER	PH	PHASE
CTR	COUNTER	PNL	PANEL
DC	DIRECT CURRENT	PP	POWER POLE
DISC	DISCONNECT	PR	PAIR
DIST	DISTRIBUTION	PRI	PRIMARY
DN	DOWN	P/T	POTENTIAL TRANSFORMER
EC	ELECTRICAL CONTRACTOR	PVC	POLYVINYL CHLORIDE
ECB	ENCLOSED CIRCUIT BREAKER	PC	PLUMBING CONTRACTOR
ELEC	ELECTRIC, ELECTRICAL	RMC	RIGID METALLIC CONDUIT
EM	EMERGENCY	REQD	REQUIRED
EMT	ELECTRICAL METALLIC TUBING	RVT	REDUCED VOLTAGE TRANSFORMER
EQ	EQUIPMENT	S/N	SOLID NEUTRAL
EWC	ELECTRIC WATER COOLER	SPEC	SPECIFICATION
EXP	EXISTING EXPLOSION PROOF	SPKR	SPEAKER
EXP	EXPLOSION PROOF	SP	SPARE
EXT F	FUSE	SWBD	SWITCH SWITCHBOARD
FA	FIRE ALARM	SWGR	SWITCHGEAR
FLR	FLOOR	SQFT	SQUARE FOOT
FVNR	FULL VOLTAGE NON-REVERSING	SS	STAINLESS STEEL
FVR	FULL VOLTAGE REVERSING	sc	SECURITY CONTRACTOR
FBO	FURNISHED BY OWNER/ OTHERS	TEL	TELEPHONE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TERM	TERMINAL
ND, GRD	GROUND	XFMR	TRANSFORMER
GC	GENERAL CONTRACTOR	TV	TELEVISION
GWH	GAS WATER HEATER	TYP	TYPICAL
HOA	HAND-OFF-AUTOMATIC SWITCH	UE	UNDERGROUND ELECTRICAL
HP	HORSEPOWER	UG	UNDERGROUND
HV	HIGH VOLTAGE	UH	UNIT HEATER
HVAC	HEATING, VENTILATING, AIR CONDITIONING	UT	UNDERGROUND TELEPHONE
НС	HEATING CONTRACTOR	UOD	UNLESS OTHERWISE DENOTED
IMC	INTERMEDIATE METALLIC CONDUIT	V	VOLT
JB	JUNCTION BOX	VA	VOLT AMPERES
KV	KILOVOLT	VFD	VARIABLE FREQUENCY DRIVE
KVA	KILOVOLT-AMPERE	VOL	VOLUME
KVAR	KILOVOLT-AMPERE REACTIVE	VC	VENTILATION CONTRACTOR
KW	KILOWATT	w	WATT
KWH	KILOWATT HOUR	W/	WITH
LV	LOW VOLTAGE	W/O	WITHOUT
MCC	MOTOR CONTROL CENTER	WG	WIRE GUARD/PROTECTIVE SHIELDING
MCP	MOTOR CIRCUIT PROTECTOR	WP	WEATHERPROOF
МСВ	MAIN CIRCUIT BREAKER	2S1W	2 SPEED SINGLE WINDING
MIN	MINIMUM	2S2W	2 SPEED DOUBLE WINDING
MISC	MISCELLANEOUS	TFA	TO FLOOR ABOVE
MLO	MAIN LUGS ONLY	TFB	TO FLOOR BELOW
MMC	MANUAL MOTOR CONTROLLER	1	

THIS IS A COMPOSITE LIST OF ABBREVIATIONS, NOT ALL PERTAIN SPECIFICALLY

STEMS	
ALL MOUNTED	
BOVE COUNTER	
LOOR MOUNTED	
DUNTED	
K	
	•

FIRE ALARM SYSTEM										
SYMBOL	DESCRIPTION									
F	FIRE ALARM CONTROL PANEL									
FA	ANNUNCIATOR PANEL									
FD	AUTOMATIC SENSOR - DUCT SMOKE DETECTOR									
F _{DT}	DUCT SMOKE DETECTOR TEST SWITCH									
F _{DP}	DUCT DAMPER POSITION INDICATOR									
크	FIRE FIGHTER HANDSET JACK									
FF	FIRE FIGHTER HANDSET									
⊡ ∓	AUTOMATIC SENSOR - HEAT DETECTOR									
<u> </u>	AUTOMATIC SENSOR - IONIZATION DETECTOR									
F _M	MAGNETIC DOOR HOLD-OPEN									
FP	MANUAL PULL STATION									
\mathbb{F}_{R}	ADDRESSABLE RELAY / MONITOR RELAY									
FRS	FAN SHUTDOWN RELAY									
Fs	AUTOMATIC SENSOR - SMOKE DETECTOR									
F _{WF}	WATER FLOW SWITCH									
Fw	WATER VALVE POSITION SWITCH									
₽D _H	AUDIBLE ALARM - HORN									
₽Ds	AUDIBLE ALARM - SPEAKER									
FO _B	AUDIBLE ALARM - BELL									
₽Oc	AUDIBLE ALARM - CHIME									
F⊙ _V	VISUAL ALARM									
FOH	AUDIBLE/VISUAL ALARM - HORN									
F⊙s	AUDIBLE/VISUAL ALARM - SPEAKER									
F⊙ _B	AUDIBLE/VISUAL ALARM - BELL									
Fo _c	AUDIBLE/VISUAL ALARM - CHIME									

ONE LINE DIAGRAMS

AUTOMATIC TRANSFER SWITCH

MANUAL TRANSFER SWITCH

POTENTIAL TRANSFORMER

CIRCUIT BREAKER

CONTACTOR

SWITCH

← FUSED SWITCH

CURRENT TRANSFORMER

METER

BUS BAR

— 100/4 — FEEDER DESIGNATION

WYE

DELTA

GROUND

TRANSFORMER

INCOMING SERVICE

FUSE

DRAW-OUT POWER CIRCUIT BREAKER

DESCRIPTION

ELECTRICAL EQUIPMENT WITH DESIGNATION

SYMBOL

MCC-1

-TTI-

A	UDIO/VISUAL SYSTEMS
SYMBOL	DESCRIPTION
P	PAGING SYSTEM CONTROL PANEL
₽s	PAGING SYSTEM LOUDSPEAKER, CEILING MOUNTED
⊢₽s	PAGING SYSTEM LOUDSPEAKER, WALL MOUNTED
₽н	PAGING SYSTEM RE-ENTRANT LOUDSPEAKER
₽v	PAGING SYSTEM VOLUME CONTROL
₽м	PAGING SYSTEM MICROPHONE JACK
©	SOUND REINFORCEMENT RACK OR PANEL
(§	SOUND REINFORCEMENT LOUDSPEAKER
Øм	SOUND REINFORCEMENT MICROPHONE JACK
 ⊗ MIXER	SOUND REINFORCEMENT DEVICE AS LABELED
<u>©</u>	CLOCK SYSTEM CONTROL PANEL
⟨C ⟩ 1	CLOCK SYSTEM OUTLET, SINGLE FACE
⟨С⟩2	CLOCK SYSTEM OUTLET, DOUBLE FACE
TV	TELEVISION SYSTEM SPLITTER BACKBOARD
TV	TELEVISION SYSTEM OUTLET
№	SOUND MASKING RACK OR PANEL
₩s	SOUND MASKING SPEAKER, CEILING MOUNTED
	SYMBOL PS PS PS PH PV PM SM MIXER C) C) TV

RECEPTACLES								
SYMBOL	DESCRIPTION							
Ф	SIMPLEX RECEPTACLE							
₩	DUPLEX RECEPTACLE							
₩	QUADRUPLEX RECEPTACLE							
₩ EWC	ELECTRIC WATER COOLER							
₩G	GROUND FAULT CIRCUIT INTERRUPTER							
⊕	ISOLATED GROUND							
₩s	TRANSIENT VOLTAGE SURGE SUPPRESSOR							
⊕ ⊤	TAMPER RESISTANT							
₩W	WEATHER PROOF							
₩ XR	X-RAY VIEWER							
 	DUPLEX RECEPTACLE ABOVE COUNTER							
4	DUPLEX RECEPTACLE ON EMERGENCY POWER							
	TWO DUPLEX RECEPTACLES ALIGNED VERTICALLY							
4	QUADRUPLEX RECEPTACLE ON EMERGENCY POWER							
- ♦ ♦	TWO QUADRUPLEX RECEPTACLES ALIGNED VERTICALLY							
•	FLOOR MOUNTED DUPLEX RECEPTACLE							
+	CEILING MOUNTED DUPLEX RECEPTACLE							
Ю	SIMPLEX SPECIAL RECEPTACLE							
	FLOOR MOUNTED SPECIAL RECEPTACLE							
Ø	CEILING MOUNTED SPECIAL RECEPTACLE							
Ø →	RECEPTACLES GROUPED IN COMMON FLOOR BOX							
ф ф	RECEPTACLES IN SURFACE RACEWAY - ARROWS SHOW TOTAL LENGTH							

POWER SYSTEMS											
SYMBOL	DESCRIPTION										
SWBD 1	LARGE ELECTRICAL EQUIPMENT WITH DESIGNATION - DRAWN TO SCALE										
	DISTRIBUTION PANEL WITH DESIGNATION										
	BRANCH PANEL WITH DESIGNATION										
EF 3	MECHANICAL EQUIPMENT CONNECTION WITH DESIGNATION										
Ø	MOTOR WITH DESIGNATION										
√ ©√	GENERATOR SYSTEM WITH DESIGNATION										
1	TRANSFORMER WITH DESIGNATION - DRAWN TO SCALE										
Ó	DISCONNECT SWITCH										
\boxtimes	MOTOR STARTER										
-₩	COMBINATION MOTOR STARTER / DISCONNECT SWITCH										
0	JUNCTION BOX										
(P)	PULL BOX										
С	CONTACTOR										

SWITCHES								
SYMBOL	DESCRIPTION							
Ю	SINGLE POLE (LOWER CASE LETTER INDICATES SWITCH LEG)							
167 2	DOUBLE POLE							
1€7 3	THREE WAY							
1€7- 4	FOUR WAY							
Ю В	START-STOP PUSH BUTTON							
⊮ D	DIMMER							
⊮ J	DOOR JAMB							
K K	KEY OPERATED							
₩L	LOW VOLTAGE							
⊮ P	PILOT LIGHT							
₩	TIMER							
I WW	TWO SWITCHES ALIGNED VERTICALLY							
S	INFRARED SENSOR							
SD	DUAL TECHNOLOGY SENSOR							
Sp	PHOTO SENSOR							
Su	ULTRASONIC SENSOR							

SYMBOL F1 — FIXTURE TYPE 23 — CIRCUIT a — CONTROL DEVICE SURFACE MOUNTED FLUORESCENT TROFFER, NORMAL POWER SURFACE MOUNTED FLUORESCENT TROFFER, EMERGENCY POWER RECESSED MOUNTED FLUORESCENT TROFFER, NORMAL POWER	
23 — CIRCUIT a — CONTROL DEVICE SURFACE MOUNTED FLUORESCENT TROFFER, NORMAL POWER SURFACE MOUNTED FLUORESCENT TROFFER, EMERGENCY POWER	
SURFACE MOUNTED FLUORESCENT TROFFER, EMERGENCY POWER	
RECESSED MOUNTED FLUORESCENT TROFFER, NORMAL POWER	
RECESSED MOUNTED FLUORESCENT TROFFER, EMERGENCY POWER	
SURFACE/SUSPENDED MOUNTED FLUORESCENT STRIP OR LINEAR, NORMAL POWER	
SURFACE/SUSPENDED MOUNTED FLUORESCENT STRIP OR LINEAR, EMERGENCY POWER	}
SURFACE MOUNTED INCANDESCENT OR HID, NORMAL POWER	
SURFACE MOUNTED INCANDESCENT OR HID, EMERGENCY POWER	
RECESSED MOUNTED INCANDESCENT OR HID, NORMAL POWER	
RECESSED MOUNTED INCANDESCENT OR HID, EMERGENCY POWER	
EXIT SIGN - FACES AND ARROWS AS SHOWN	
BATTERY PACK EMERGENCY LIGHTING	
<u>♀♀♀</u> TRACK LIGHTING - HEADS AS SHOWN	
1 DENOTES WALL MOUNTING	

Project Number

Building Number

Drawing Number

607-12-111

TELECOMMUNICATIONS SYSTEMS												
SYMBOL	SYMBOL DESCRIPTION											
¥	TELEPHONE OUTLET, WALL MOUNTED											
▼ P	PAY TELEPHONE OUTLET, WALL MOUNTED											
▼ E	EMERGENCY TELEPHONE OUTLET											
	TELEPHONE OUTLET, FLOOR MOUNTED											
☐ COMBINATION TELEPHONE/DATA OUTLET, WALL MOUNTED												
COMBINATION TELEPHONE/DATA OUTLET, ABOVE COUNTER												
COMBINATION TELEPHONE/DATA OUTLET, FLOOR MOUNTED												
A	OTHER TELEPHONE/DATA OUTLET, WALL MOUNTED											
	OUTLETS GROUPED IN COMMON FLOOR BOX											

Dept. of Veterans Affairs Medical Center 2500 Overlook Terrace Madison, WI, 53750

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CHEQUAMEGON BAY ENGINEERING, INC. MILWAUKEE, WI

WIRING & RACEWAY

EXPOSED CONDUIT OR CONDUCTOR CONCEALED CONDUIT OR CONDUCTOR

LIGHTNING PROTECTION AIR TERMINAL

NEUTRAL CONDUCTOR GROUND CONDUCTOR

CIRCUIT HOMERUN

CABLE TRAY

PLUG-IN BUSWAY CONDUIT ELBOW UP CONDUIT ELBOW DOWN

BUSWAY DUCT OR TRAY

DESCRIPTION

CONCEALED CONDUIT OR CONDUCTOR BELOW FLOOR

LIGHTNING PROTECTION DOWN CONDUCTOR TO GROUND

LIGHTNING PROTECTION HORIZONTAL CONDUCTOR

PROJECT LEADER:

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100% CONSTRUCTION DOCUMENTS Drawing Title Project Title **ELECTRICAL SYMBOLS** Fire Protection System Replacement AND ABBREVIATIONS Approved: Project Director Madison, Wisconsin Checked By: Drawn By: HEI

Office of **Facilities** Management

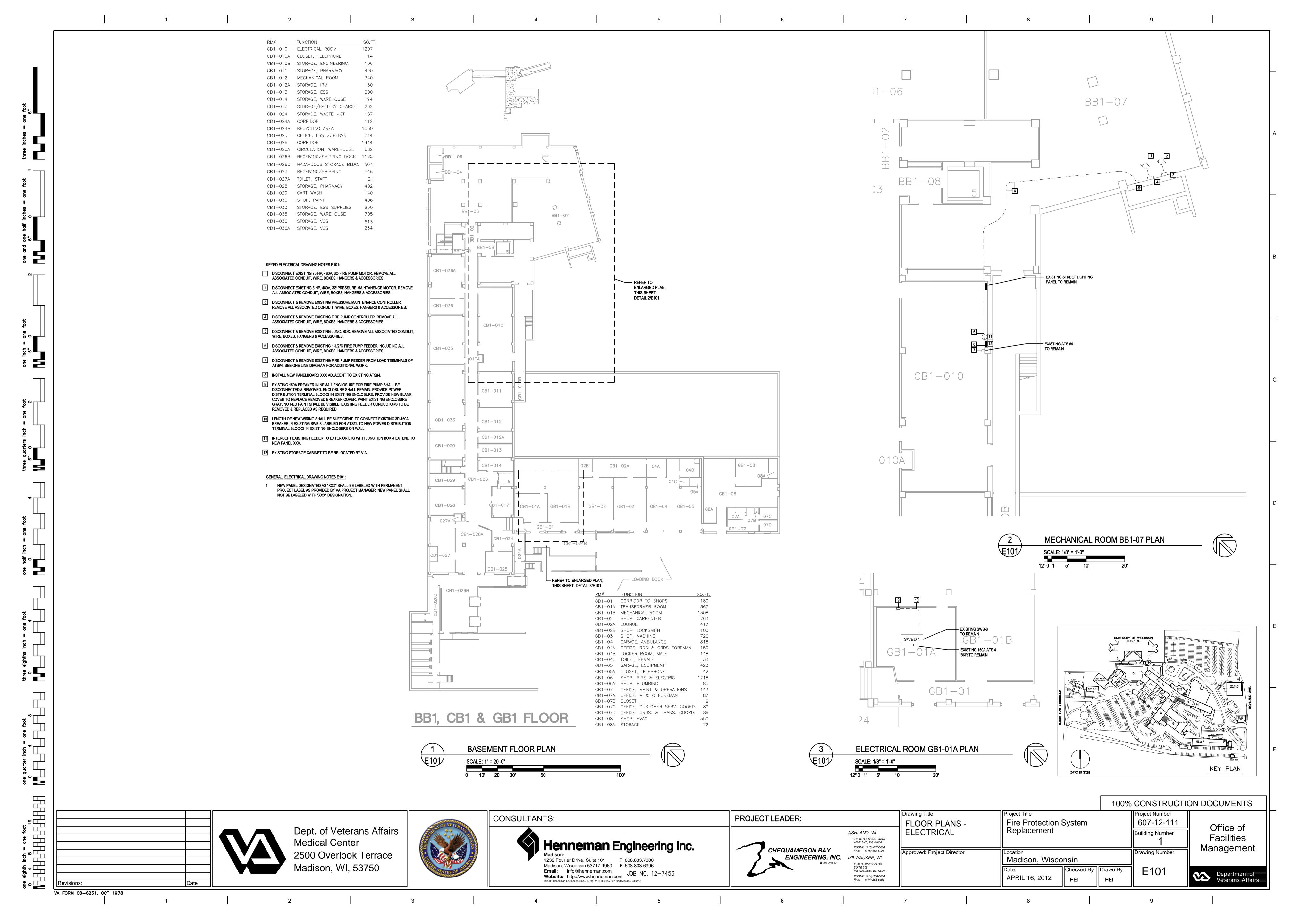
Department of Veterans Affairs

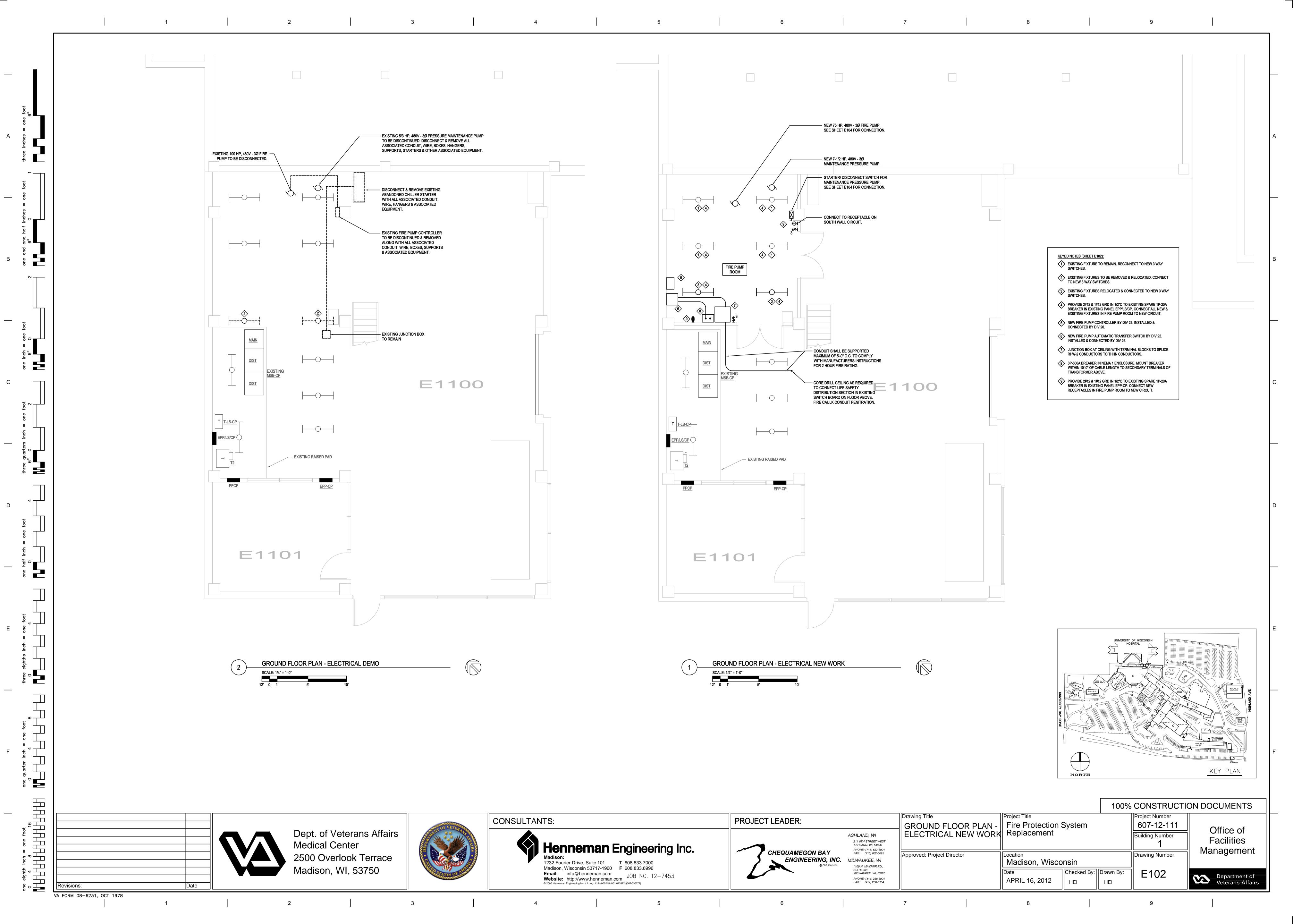
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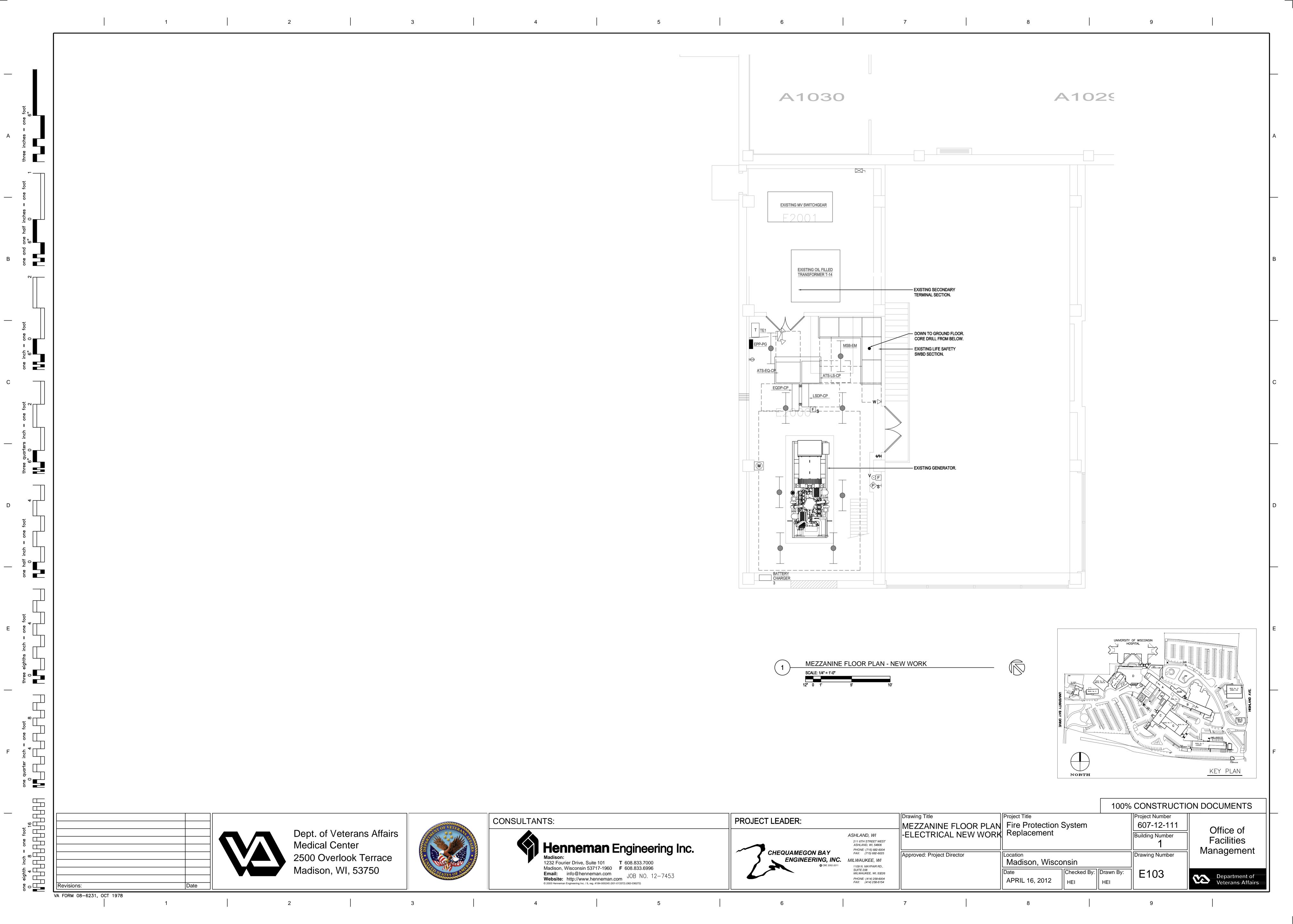
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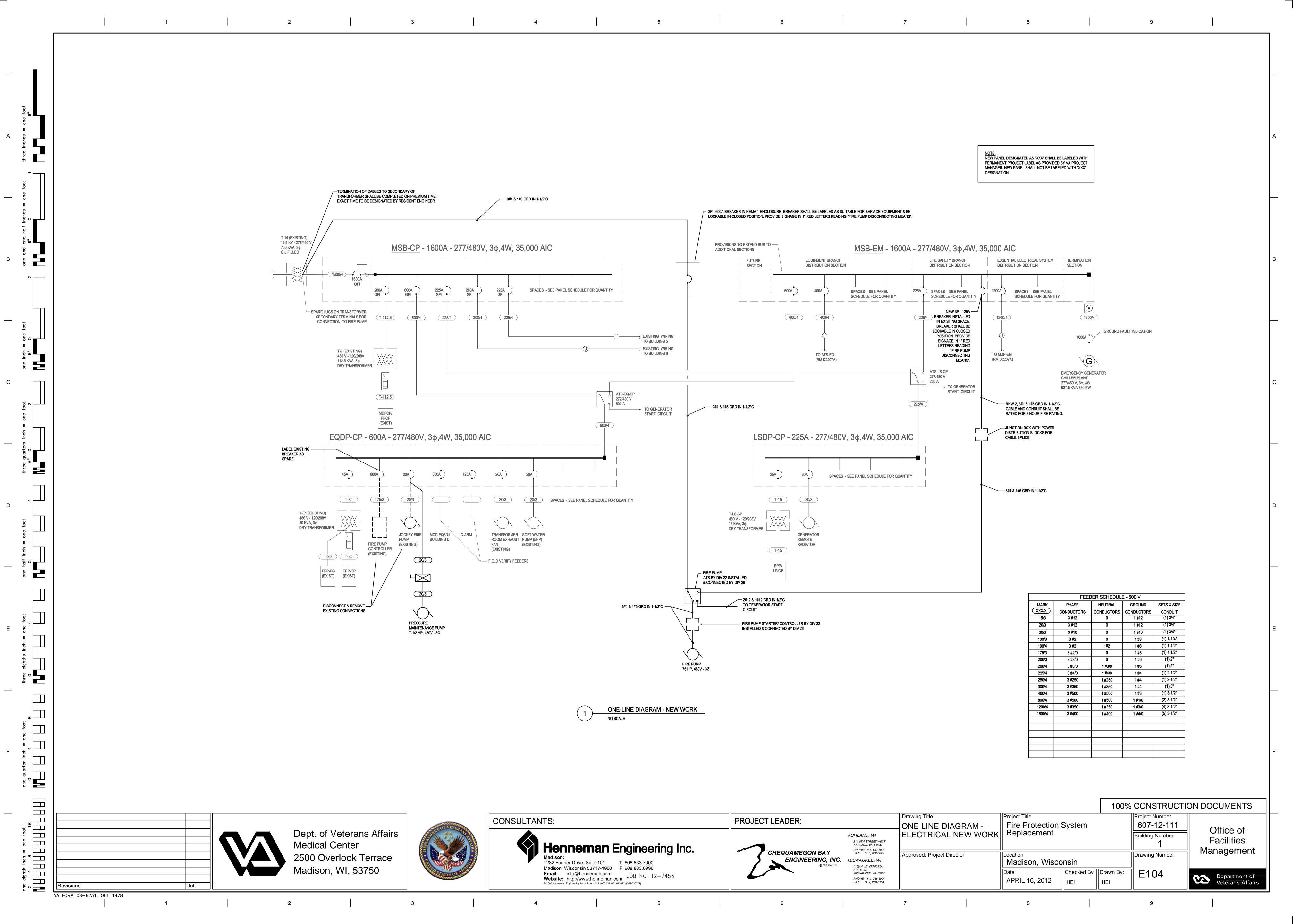
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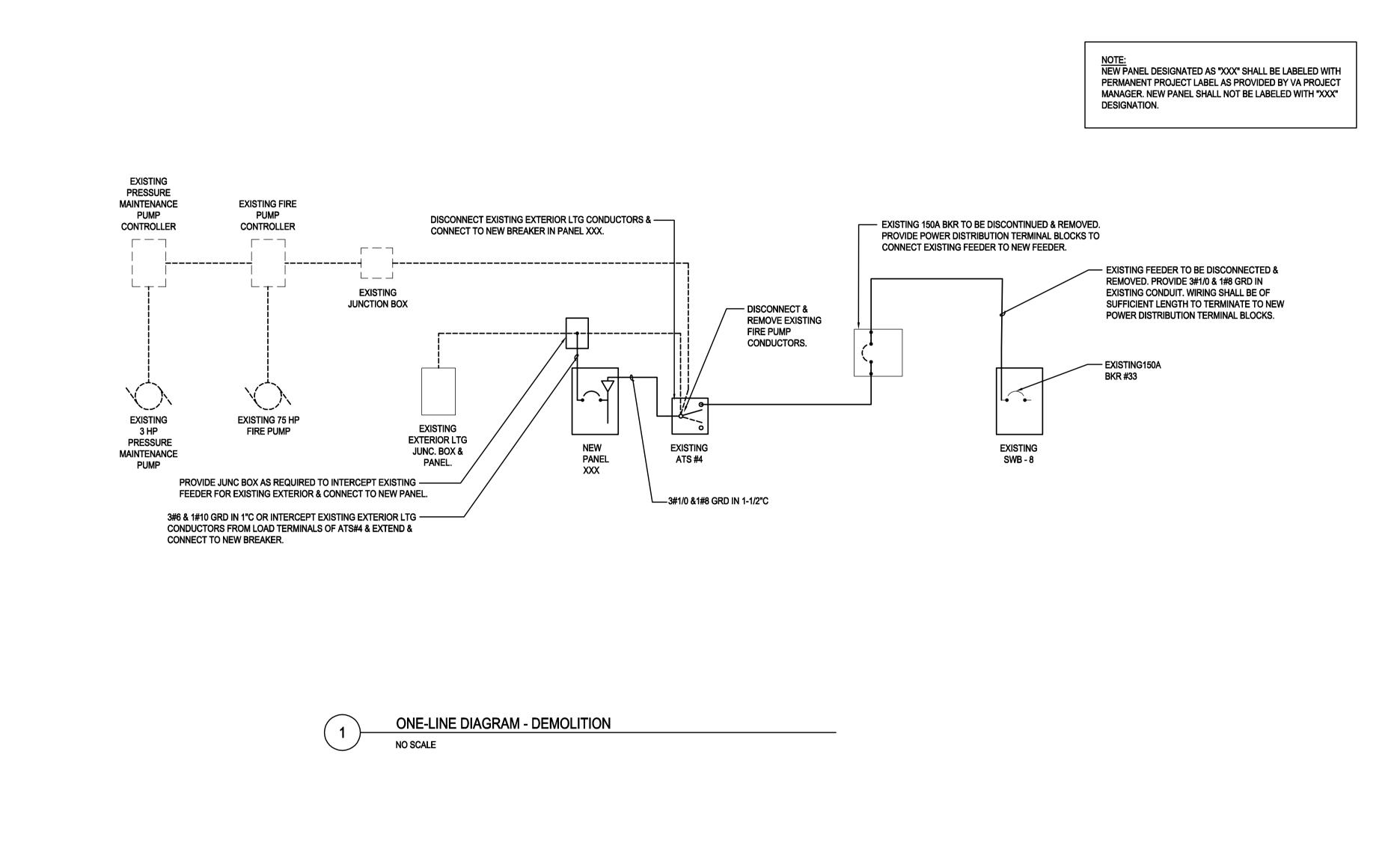
APRIL 16, 2012 HEI











NEMA 1 LOAD S R R R R R R LOAD L	BRANCH PANEL NAME		VC	LTAGE		PHASE	WIRE	BUS SI	ZE	MAI	N OCP		AIC RATING
NEMA 1	XXX		277/				_				/LO		
LOAD Coasing Exterior Ltg L 60 1 2 2 0 1 R SPARE				CO	DE: L=LIC				K=KITC	HEN			SURFACE MOUNT
EXISTING EXTERIOR LTG L	NEMA 1					COF	PPER GROUND B	BAR,					
EXISTING EXTERIOR LTG L 3 60 3 L 60 5 L 60 5 SPARE SPARE R 1 20 7 SPACE SPARE R 1 20 9 10 20 1 R SPARE SPARE SPARE R 1 20 9 10 20 1 R SPARE SPARE SPARE R 1 20 11 SPACE WITH BUS 1 20 15 SPACE WITH BUS 1 20 17 SPACE WITH BUS 1 20 19 SPACE WITH BUS 1 1 20 21 SPACE WITH BUS SPACE WITH BUS 1 1 20 21 SPACE WITH BUS SPACE WITH BUS 1 1 20 21 SPACE WITH BUS SPACE WITH BUS 1 1 20 23 SPACE WITH BUS SPACE WITH BUS 1 1 20 23 SPACE WITH BUS SPACE WITH BUS 1 1 20 25 SPACE WITH BUS SPACE WITH BUS 1 1 20 25 SPACE WITH BUS SPACE WITH BUS 1 1 20 31 SPACE WITH BUS SPACE WITH BUS SPACE WITH BUS 1 1 20 31 SPACE WITH BUS SPACE WITH BUS 1 1 20 31 SPACE WITH BUS SPACE WITH BUS SPACE WITH BUS 1 1 20 31 SPACE WITH BUS SPACE WITH BUS 1 1 20 33 SPACE WITH BUS SPACE WITH BUS SPACE WITH BUS 1 1 20 36 SPACE WITH BUS SPACE WITH BUS 1 1 20 37 SPACE WITH BUS SPACE WITH BUS SPACE WITH BUS SPACE WITH BUS 1 1 20 37 SPACE WITH BUS SPACE WITH BUS SPACE WITH BUS 1 1 20 37 SPACE WITH BUS SPACE W	LOAD	CODE	POLE	BKR	CKT#	Α	В	С	CKT#	BKR	POLE	CODE	LOAD
		L		60	1				2	20	1	R	SPARE
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SPACE WITH BUS 1 20 41 0 PHASE A RECEPT-VA @ per NEC - TCL VA 0 TCL VA 0	SPACE WITH BUS		1	20	39								
0 PHASE A RECEPT-VA @ per NEC - TCL VA 0	SPACE WITH BUS		1	20	41								
	0	PHASE A			RECEP	T-VA @	per NEC	-			-		
0 PHASE B LIGHTS-VA @ 100% - DEMAND VA 0 0 PHASE C MOTOR-VA @ 95% - HI-PH CONN. A 0	0					LIGHTS-VA @ 100% -			_				0
	0	TCL			KITCHE	N-VA@	80%	-	DEM	AND A			0

	DISCONNECT SWITCH AND STARTER SCHEDULE														
MARK	LOAD	DISC	STAR-	VOLTS	PHASE	HP	VA	AMPS	SW	FUSE	NEMA	STR	NEMA	CONTROL	CONDUIT & WIRE
		sw	TER								SIZE	TYPE	ENCL.		
FP-1	FIRE PUMP	DIV 22	DIV 22	480	3	75.0	79,718	96.0				NOTE 1			SEE ONE LINE DIAGRAM
PMP-1	PRESSURE MAINTENCE	DIV 26	DIV 26	480	3	7.5	9,134	11.0	30.0	20.0	1.0	ACL		H-O-A	3#12,1#12 GND, 3/4"C.

*ELECTRICAL CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH CONTRACTOR SUPPLYING EQUIPMENT PRIOR TO ALL TRADES ORDERING EQUIPMENT TO ENSURE THE PROPER SELECTION AND COST IMPLICATIONS OF EQUIPMENT SELECTION. COSTS INCURRED DUE TO CHANGES SHALL BE DEFERRED TO THE TRADE SUPPLYING THE EQUIPMENT. HOA = HAND-OFF-AUTO SECLECTOR ACL = ACROSS THE LINE TYPE

NIOTE 1 - AUTOMATIC TRANSFER SWTICH, STARTER AND DISCONNECT SWITCH FURNISHED BY DIV 22 CONTRACTOR, INSTALLED BY DIV 26 CONTRACTOR

Dept. of Veterans Affairs Medical Center 2500 Overlook Terrace

Date

Madison, WI, 53750



CONSULTANTS:	
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CHEQUAMEGON BAY ENGINEERING, INC.

PROJECT LEADER:

			100%	CONSTRUCTION	ON DOCUMENTS
HLAND, WI 211 6TH STREET WEST ASHLAND, WI, 54806 PHONE: (715) 682-6004	Drawing Title ONE LINE DIAGRAM - ELECTRICAL DEMO WORK AND SCHEDULES	Fire Protection System Replacement Location Madison, Wisconsin		Project Number 607-12-111 Building Number 1	Office of Facilities Management
FAX: (715) 682-6025 .WAUKEE, WI 1109 N. MAYFAIR RD.,	Approved: Project Director			Drawing Number	Management
SUITE 208 MILWAUKEE, WI, 53226 PHONE: (414) 258-6004 FAX: (414) 258-6154		APRII 16 2012	EI HEI	E105	Department of Veterans Affairs

one eighth inch = one foot

0 4 8 16

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Revisions: VA FORM 08-6231, OCT 1978